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Chapter 5 Implementation Plan

This chapter lays out the implementation plan for the *California Water Plan Update 2004*. The implementation plan includes each of the recommended actions summarized in Findings and Recommended Actions with its related action plan, intended outcomes, resource assumptions, implementation challenges and performance measures (See Table 5-xx Elements of the Implementation Plan).

Table 5-xx Elements of the Implementation Plan

Element	Description
Action plan	A detailed description of the key activities to implement each objective and specifies the entity(s) best positioned to play a key role in implementation. Action plans break activities into manageable parts including assignments, resource assumptions, implementation challenges and performance measures for tracking progress.
Intended outcome	Describes the desired end result and may indicate an estimated and/or recommended timeframe for implementation.
Resource assumption	Estimates resources -- including human and/or financial resources -- required to accomplish the action plan.
Implementation challenge	Identifies factors that may restrict, limit, or regulate the action plan such as scope, funding, skill levels, policy, technology, dependency
Performance measure	The methods used to ensure accountability to measure work performed and results achieved. It describes what is to be measured, and methods of measurement. The measure may be short- intermediate- and/or long-term. The performance measures are based are similar to the evaluation criteria described in Chapter 3.

Additional details for all DWR goals, objectives and action plans are presented in DWR's *Strategic Business Plan* (2004).

Implementation Costs

Implementing the recommended actions of *California Water Plan Update 2004* will require significant action and investment by all Californians. Local implementation of the resource management strategies and the essential support activities summarized in the Strategy Investment Options Table, which includes the CALFED Bay-Delta Program, will require tens of billions of dollars over the next 25 years. Many of the management strategies would be applied incrementally and adaptively to meet changing regional conditions and goals. However, other strategies and all of the essential support activities need significant upfront and ongoing funding.

Since 1995 voters have demonstrated their support for managing our water resources by approving several bond measures, which have totaled an average of \$1 billion annually. These bonds, combined with local funding, have led to significant progress in new water conservation, groundwater storage, water recycling, and ecosystem restoration. Implementation of the CALFED Bay Delta Program was a major driver for these bonds, and the program will continue to be vital for improving water management in California.

Strategies, options and guidelines for public investments and State financial assistance included in the implementation plan are described in Chapter 4 Framework for Future Action.

Recommended Action #1

California needs to invest in water conservation, efficient water management, and development of reliable, high quality, sustainable, and affordable water supplies to maintain and improve California's economy, environment, and standard of living.

To provide for the future, California must rely on a diverse set of water management strategies to (1) use and manage its existing water supplies efficiently; (2) implement new technologies to further water conservation, augment supplies, and improve water quality; and (3) increase water storage to improve flexibility and complement the benefits of other water management tools. To realize the full potential outlined in this Water Plan update, California needs significant and continuous investments for regional integrated planning, more public and private partnerships, project implementation, and better data and analytical tools.

Action Plan

- DWR will develop a work plan to implement this recommended action, which will provide details on the resources required and schedule for implementing all the recommendations in this implementation plan.
- DWR will effectively manage grants to local and regional agencies to provide for reliability of water resources, preserve ecological function, and assure fair and equitable distribution of funding.
- DWR will continue and strengthen its commitment to evaluate and implement feasible elements of the CALFED Bay-Delta Program.
- DWR will evaluate how to make the most effective use of its technical and financial assistance programs (including Proposition 50 funded programs) to support planning and implementation of local and regional water use efficiency, groundwater storage and management, urban streams, flood management, and related planning efforts.
- DWR will redirect existing resources and seek new funding to improve data and analytical tools and to increase outreach and coordination with local and regional planning efforts as well as other State and federal efforts.
- Local and regional planners diversify and increase the resource management strategies in their integrated resource plans.
- Regions invest in water conservation, efficient water management, and development of reliable, high quality, sustainable and affordable water supplies. The State should provide public funding for implementing local strategies that have broad public benefits.

Intended Outcomes

- Completing DWR's role in evaluating feasible elements of the CALFED Bay-Delta Program outlined in the Record of Decision to allow the public and policy makers to decide on the best course of action.
- Work plan and schedule to implement all recommended actions outlined in this implementation plan.
- Disbursement of Proposition 50 funding for implementation of integrated regional water management plans and other efforts to improve statewide water management objectives.

Resource Assumptions

Many tasks in this recommended action can be accomplished with existing resources over time and through implementation of Proposition 50. However, full and timely implementation of CALFED Bay-Delta Program elements and related local assistance programs would require significant redirection of existing resources and/or new funding and resources. Additional and ongoing funding and local assistance are required for implementing integrated resource plans after Proposition 50 has been fully implemented.

Implementation Challenges

- Developing institutional relationships with other agencies necessary for integrating information between different planning efforts.
- Uncertainty in continuity of federal, State, and local funding.
- Difficulty in achieving consensus among different stakeholders about implementation actions and priorities.

Performance Measures

- Annual funding dedicated for CALFED Bay-Delta Program, local technical and financial assistance, data and analytical tools development, feasibility and implementation of resource management strategies, groundwater management plans, urban water management plans, and regional water plans.
- Measured improvements in statewide water management objectives.
- Progress in achieving implementation of intended outcomes described above.

Recommended Action #2

The State recognizes the critical role regions must play in California water planning and management and the need to better coordinate water planning with land use planning and urban development.

The State must provide incentives and assist regional and local agencies and governments to prepare their integrated resource and drought contingency plans on a watershed basis, to diversify regional resource management strategies, and empower regions to implement their plans. The State should assist cities, counties, and Local Agency Formation Commissions to prepare a Water Element for their general plans and help them implement existing legislation and State policies to improve coordination between water and land use planning.

Action Plan

- DWR will develop a work plan and schedule for implementing this recommended action.
- DWR will develop guidelines for technical and financial assistance, and templates for integrated resource plans, urban water management plans, and drought contingency plans.
- DWR will continue to provide technical, administrative, and financial assistance to implement actions under the California Urban Water Conservation Council, “Memorandum of Understanding Regarding Urban Water Conservation in California” and the Agricultural Water Management Council, “Memorandum of Understanding” to improve water use efficiency in California.
- DWR will develop the necessary tools to assist local and regional agencies be successful with the integrated water resources management and planning.
- DWR will redirect funds and/or seek new funds for tasks that cannot be done with existing resources and after funding from Proposition 50 is no longer available.
- Regions develop regional integrated resource plans to meet multiple water management objectives consistent with the principles advanced in this Water Plan.
- Local governments and agencies improve coordination between land use planning with water planning and management to ensure that that new infrastructure has adequate water supply.

Intended Outcomes

- Work plan and schedule for implementing the recommendation.
- Disbursement of Proposition 50 funding for development of regional water plans and related activities including data collection and public outreach.
- Guidelines for effective regional integrated water resource planning and management by 2005.
- Guidelines and template for urban and agricultural water management plans by 2005.
- Guidelines for reduction of groundwater overdraft by 2005.
- Status report on groundwater basins management by 2006.
- Recommendations for groundwater management plans and model ordinance by 2006.
- Implement a Critical Water Shortage Reduction Program by December 2005.
- Communication plan to inform local and regional agencies of DWR’s programs, available databases, and data collection and analysis by 2005.

Resource Assumptions

DWR will implement the recommended action to the extent possible with existing resources, including disbursement of financial assistance funded by Proposition 50. Expansion or continuation of the program beyond that funded by Proposition 50 would require additional funding or a redirection of resources from other programs. It is estimated that the full implementation of the recommendation would require 18 positions and \$8 million annually within DWR. An undetermined amount of funding and positions would be required for other State agencies with watershed or water resource related local assistance programs.

Implementation Challenges

- DWR staff developing necessary relationships with local entities and identifying roles needed to initiate and develop regional integrated resource plans that are consistent with statewide water management objectives.
- Uncertainty in continuity of State and local funding to maintain participation.
- Maintaining interest over 3 to 5 years needed to build consensus and develop regional integrated resource plans for all regions of California.

Performance Measures

- Annual funding dedicated for CALFED Bay-Delta Program, local technical and financial assistance, data and analytical tools development, feasibility and implementation of resource management strategies, groundwater management plans, urban water management plans, and regional water plans.
- Number, distribution, and quality of groundwater management plans, urban water management plans, drought contingency plans, and regional integrated resource plans.
- Measured improvements in regional water management objectives.
- Progress in achieving implementation intended outcomes described above.
- Progress in meeting actions under the California Urban Water Conservation Council, “Memorandum of Understanding Regarding Urban Water Conservation in California” and the Agricultural Water Management Council, “Memorandum of Understanding” to improve water use efficiency in California.

Recommended Action #3

The State needs to lead water planning and management activities that (a) regions cannot accomplish on their own, (b) the State can do more efficiently, (c) involve inter-regional or inter-state issues, or (d) have broad public benefits.

These activities include, but are not limited to: (1) preparing California Water Plan updates as a public forum to integrate State, federal, regional, and local plans; (2) operating and maintaining the State Water Project; (3) providing regulatory oversight to protect public health and safety, including water quality, environmental protection, flood management, and dam safety; (4) participating in major regional initiatives, such as the CALFED Bay-Delta Program, and (5) forming public-private partnerships to implement regional programs like the Colorado River Quantification Settlement Agreement. Other State activities are included in the recommended actions that follow.

Action Plan

- DWR will integrate information developed for the California Water Plan with other planning efforts, such as local and regional water plans, the CALFED Bay-Delta-Program, and the SWRCB Water Quality Control Plans.
- DWR will use a collaborative process to work with local, regional, State, and federal agencies and stakeholders to conduct regular updates of key reports on California's water resources including the *California Water Plan* (Bulletin 160), *California's Groundwater* (Bulletin 118), *California Water Atlas*; and *California's Water Resources* (Bulletin 1).
- DWR will seek to attract and maintain the expertise necessary to investigate the most pressing statewide water resources problems and implement actions to respond to these problems.
- DWR will redirect existing resources and/or seek new funding to support activities not currently funded that are needed to implement the recommended action.
- DWR will continue its participation and support for inter-regional, inter-state, and international water negotiations.
- To operate and maintain the SWP, DWR will:
 - Establish and maintain a risk-based management process that integrates SWP operations, energy, and maintenance. This program addresses the 16 strategic initiatives identified in the Future Operations Migration Strategy to be completed by 2009.
 - Improve fiscal management of the State Water Project by December 2005.
 - Obtain a new FERC License for Oroville Facilities by January 31, 2007.

Intended Outcomes

- Updates of *California Water Plan* (Bulletin 160), *California's Groundwater* (Bulletin 118), *California Water Atlas*; and *California's Water Resources* (Bulletin 1).
- For SWP operations:
 - Power portfolio and risk policy and procedures by 2005.
 - Suite of timely, useful, and accurate operational reports for effective SWP management by 2006.
 - Suite of timely, useful and accurate financial reports specific to SWP needs by 2006.
 - Filed application with FERC to renew the Oroville Facilities FERC license (Project 2100) on or before Jan. 31, 2005 & completed documentation for issuance of the new license by Jan. 2007.

Resource Assumptions

- Many tasks in this recommendation can be accomplished with existing resources.
- Future updates of the *California Water Plan* (Bulletin 160) will require \$5 million annually to include professional facilitation, outreach to the public, and better coordination with local, state and federal water and resource agencies. Additional resources needed for analytical tools and data are included under Recommendation # 8.
- Future updates of *California's Groundwater* (Bulletin 118), *California Water Atlas*; and *California's Water Resources* (Bulletin 1) cannot be accomplished with existing resources unless resources are redirected from other programs.

Implementation Challenges

- Developing the institutional relationships with other agencies necessary for integrating information between different planning efforts.
- Uncertainty in continuity of State and local funding to maintain participation.

Performance Measures

- Annual funding dedicated for CALFED Bay-Delta Program and updates for *California Water Plan* (Bulletin 160), *California's Groundwater* (Bulletin 118), *California Water Atlas*; and *California's Water Resources* (Bulletin 1).
- Frequency and quality of updates of *California Water Plan* (Bulletin 160), *California's Groundwater* (Bulletin 118), *California Water Atlas*; and *California's Water Resources* (Bulletin 1).

Recommended Action #4

California needs to develop broad and realistic funding strategies that define the role of public investments for water and other water-related resource needs over the next quarter century.

The State needs to lead an effort to identify and prioritize funding strategies to finance regional and statewide water planning, programs, and infrastructure. The State needs to clearly articulate when, and for what actions, to use public investments from State and federal sources. California's water finance plan must also recognize the critical role of local public and private funding based on the principle of beneficiary pays and user fees.

Action Plan

- Work with the Governor and the Legislature to develop policy and a work plan for implementing recommendations of the California Bay-Delta Authority, Commission on Building for the 21st Century and other efforts for financing water management and related activities. Part of this work will be to ensure DWR's current financial assistance programs are consistent with the recommendations developed by the California Bay-Delta Authority (CBDA) and the Commission on Building for the 21st Century.
- State leads an effort to develop broad and realistic funding strategies that define the role of public investments for water and other water-related resource needs over the next quarter century.
- Develop a stable strategy for pooling federal, state, and local revenue sources for investment in our water management system. This should include using a combination of bonds, user fees, general fund appropriations, and pursuing federal assistance for projects of regional and national significance such as the Bay-Delta Program.
- Provide financial incentives for local agencies to develop project that assist with meeting statewide water management objectives and are consistent with the funding principles described above.
- Develop and implement policy regarding investment of public money in private water utilities.
- Ensure consistency and coordination with the Capital Budget Planning Process, a five-year strategic planning process for capital budget planning across state agencies pursuant to AB 1473 and the three planning priorities in AB 857 (Wiggins). Linking State investments in water infrastructure and projects with the mandated capital budget planning process will ensure greater consistency in state policies used as the basis for investment decisions across state agencies.

Intended Outcomes

- Completing a work plan for implementing the financing recommendations of the California Bay-Delta Authority and the Commission on Building for the 21st Century based on policy developed by the Governor and the Legislature.
- State's water finance plan with funding strategies.

Resource Assumptions

- Developing the work plan can be accomplished with existing resources.
- Implementing the work plan will likely require additional resources or the redirection of existing resources.

Implementation Challenges

- Resistance to implementing new water user fees or general taxes to fund the work.
- Difficulty in defining beneficiaries that could help fund the work.

Performance Measures

- Progress in completing and implementing a work plan for implementing the financing recommendations of the California Bay-Delta Authority and the Commission on Building for the 21st Century based on policy developed by the Governor and the Legislature.
- Amount of funding and variety of funding sources provided at local, State, and federal level for water management activities.

Recommended Action #5

California needs to rehabilitate and maintain its aging water infrastructure, especially drinking water and sewage treatment systems, operated by State, federal, and local entities.

The State should lead an effort, with input from public and private owners of water infrastructure, to identify and prioritize water infrastructure maintenance of key components with regional or statewide significance. This effort should also identify and implement financing strategies for continued public investments in the resulting infrastructure maintenance plan.

Action Plan

- Work with the Governor and the Legislature to implement recommendations developed by the California Bay-Delta Authority and the Commission on Building for the 21st Century for financing water management and related activities.
- State leads an effort with federal, State, regional, and local entities to inventory the current extent of unmet infrastructure and maintenance work, estimate the potential costs, and develop a strategy for funding the need work.
- Develop a plan to replace and/or rehabilitate those portions of the SWP that are reaching the end of their design life by December 2006.

Intended Outcomes

- Inventory of the current unmet infrastructure and maintenance work, potential costs, and strategy for funding the work in cooperation with federal, State, regional and local entities.
- Evaluation of pumping and power plant units for potential refurbishment work by December 2006.
- Plan for evaluation and repair of the Santa Ana Pipeline and other PCCP pipelines, as necessary, by December 2006.

Resource Assumptions

- An inventory of the SWP's unmet infrastructure and maintenance work, potential costs, and strategy for funding the work could be accomplished with existing resources.
- Additional resources would be needed or redirected from other programs for DWR to serve as the major coordinator of this recommendation.

Implementation Challenges

- Resistance to implementing new water user fees or general taxes to fund the work.
- Difficulty in defining beneficiaries that could help fund the work.
- Difficulty in defining the scope of work and working with the myriad of entities responsible for water infrastructure.

Performance Measures

- Funding and funding sources provided for infrastructure improvements.
- Measured improvements in statewide water management objectives.
- Progress in completing an inventory of the current unmet infrastructure and maintenance work, potential costs, and strategy for funding the work in cooperation with federal, State, regional and local entities.
- Number of completed improvements identified in inventory of the current unmet infrastructure and maintenance work, potential costs, and strategy for funding the work in cooperation with federal, State, regional and local entities that are completed.

Recommended Action #6

California needs to define and articulate the respective roles, authorities, and responsibilities of State agencies and local agencies and governments that are responsible for water.

The State needs an internal review of how State resource agencies do business to identify ways to make these agencies more efficient, effective, and responsive to Californians. In light of the growing regional role in water planning and management, the State needs to redefine how to empower and assist regional water plans and programs. Establishing a cabinet-level strategic water team would strengthen coordination among State agencies responsible for water and ensure that their strategic plans and activities are consistent with the Governor's water initiatives and State policy.

Action Plan

- State leads an effort to define and articulate the respective roles, authorities, and responsibilities of State agencies and local agencies and governments responsible for water.
- DWR will evaluate how it can better serve the public by reviewing its mission, functions and organization to respond to today's water problems.
- DWR will work with the Governor and Legislature to improve DWR's functions in relation to other State and local agencies and governments with water management responsibilities.

Intended Outcomes

- Changes to DWR's functions and organization to respond to today's water problems and support regional integrated resource planning and management.
- Cabinet-level strategic water team to coordinate activities of State agencies responsible for water.

Resource Assumptions

- Additional resources or a redirection of existing resources will be required to conduct a thorough review of DWR's mission and organization and to participate in a larger review of all State water management agencies

Implementation Challenges

- Receiving direction and resources from the Governor and Legislature to undertake comprehensive review of existing programs and evaluate alternatives.
- Difficulty in maintaining staff morale during any significant reorganization.

Performance Measures

- Progress in implementing changes to DWR's mission and organization to respond to today's water problems.

Recommended Action #7

The State needs to inventory, evaluate, and deal with the effects of contaminants on surface water and groundwater quality.

The evaluation should include the effect of contaminants on long-term sustainable water resources in California, as well as cost-effective ways to improve water quality. To safeguard water quality for all beneficial uses, the State should also adopt a preventive strategy that promotes integration of source protection, pollution prevention, water quality matching, and, for drinking water, treatment and distribution.

Action Plan

- DWR will work with federal, State, and local agencies to develop a work plan, institutional mechanism, and required costs for implementing the recommendation.
- DWR will work with federal, State, and Local agencies to inventory, evaluate, and deal with the effects of contaminants on surface and groundwater quality. DWR could participate by sharing data and conducting analysis of surface water and groundwater flow and transport of contaminants.
- As part of SWP operations, DWR will Improve Delta water quality while minimizing impacts on fisheries and export operations by December 2006.

Intended Outcomes

- Work plan to implement the recommendation.
- Inventory and response plan for dealing with effects of contaminants.
- SWP feasibility studies and recommendations for re-operation of the Delta Cross Channel and the Through Delta Facility by December 2005; and feasibility studies of Franks Tract Improvements by December 2006.

Resource Assumptions

- Completing the work plan to implement the recommendation and a portion of the actual work could be accomplished with existing resources.
- Full implementation of the recommendation could require significant resources depending on DWR's role.

Implementation Challenges

- Difficulty in defining the scope of work and working with the myriad of entities responsible for water quality problems.

Performance Measures

- Progress in completing the work plan for implementing the recommendation.
- Progress in meeting statewide, regional, and local water quality objectives.

Recommended Action #8

The Department of Water Resources, in cooperation with other State, federal, tribal, local, and research entities, should improve data and analytical tools needed to prepare, evaluate, and implement regional integrated resource plans and programs.

California needs better data and analytical tools to produce useful and more integrated information on water quality, environmental objectives, economic and equity issues, and surface and groundwater interaction. A consortium of public and private entities, with State leadership and stakeholder input, should prepare a long-term plan to peer-review and improve data and analytical tools, as well as develop presentation and decision-support tools to make complex technical information more accessible to decision-makers and resource managers. DWR should build and maintain the Water Plan Information Exchange (Water PIE), an online information management system, to assist regional and local agencies and governments.

Action Plan

- DWR will participate in efforts by the California Water and Environmental Model Forum to develop and implement a plan for the long-term improvement of analytical tools and data for statewide planning.
- DWR will develop a work plan for the creation of the Water Plan Information Exchange including the use of web-based tools for collecting and sharing data, utilization of GIS software to improve analytical capabilities, and developing timely surveys of statewide land use, water use, and estimates of future implementation of resource management strategies.
- DWR will redirect existing resources and/or seek new funding to support activities not currently funded that are needed to implement the recommendation.

Intended Outcomes

- Strategic plan for the long-term improvement of analytical tools and data for statewide planning.
- Work plan developing the Water Plan Information Exchange.
- Begin implementation of elements of the Water Plan Information Exchange.

Resource Assumptions

- Developing the long-term plan for analytical tools and data and the work plan for the Water Plan Information Exchange could be accomplished with existing resources.
- Limited implementation could be accomplished with existing resources, but full implementation would require additional resources or redirection of existing staff. It is estimated that the full implementation of the recommendation would require 22 positions and \$9 million annually within DWR.

Implementation Challenges

- Developing the institutional relationships with other local, State and federal agencies necessary for integrating information between different planning efforts.
- Adoption of data and data management guidelines, principles and standards by local, State and federal agencies and programs needed to promote data and information sharing.
- Inadequate resources to develop Water Plan Information Exchange database.

Performance Measures

- Progress in completing and implementing plan for the long-term improvement of analytical tools and data for statewide planning.
- Progress in completing and implementing the work plan for the creation of the Water Plan Information Exchange.

Recommended Action #9

The State should invest in research and development to commercialize promising water technologies and to help predict and prepare for the effects of global climate change.

The State should work with California research and academic institutions, like the California Academy of Science, California Council on Science and Technology, the University of California, and other universities and colleges, to identify and prioritize applied research projects leading to the commercialization of new water technologies and better scientific understanding of California's water-related systems. The State should also work with and assist researchers to monitor, predict and prepare for the effects of global climate change on California's water systems and the environment. DWR should develop alternative flow data to help State and regional planners test potential effects of global climate change on different management strategies.

Action Plan

- DWR will seek funding and a new position to establish a position to participate with ongoing global climate change studies and manage staff work related to global climate change research. Alternatively, existing resources could be redirected from other programs to establish the position.
- DWR will develop a plan for evaluating and responding to the impact of global climate change on the management of the State Water Project.
- DWR will work with California research and academic institutions to identify and prioritize applied research projects
- DWR will work with other State agencies to invest in a broad and diverse scientific agenda that will generally fill the gaps in our knowledge of the state's water resources, as well as support the implementation of the individual recommendations of the California Water Plan Update.

Intended Outcomes

- Establishing a position to coordinate DWR's participation in Global Climate Change studies.
- Beginning implementation of the plan responding to the impact of global climate change on the management of the State Water Project.
- Alternative flow data to help State and regional planners test potential effects of global climate change on different management strategies.
- Enhanced Science Program modeled upon and, integrated with, the existing Science Program of the California Bay-Delta Authority.

Resource Assumptions

- Establishing a position to coordinate DWR's participation in Global Climate Change studies would require additional resources or redirection of existing staff and approximately \$700,000 annually to improve data and analytical tools to more accurately predict impacts of global climate change.
- Evaluating impacts of global climate change on the management of the State Water Project can be done with existing resources.
- For ongoing research and development, the State would need to invest about \$10 million annually to commercialize promising water technologies.
- Consistent with CALFED Bay-Delta Program goals for science funding, investments in water science should be established within a range of 3 percent to 5 percent of total public funds (cost share) expended to help implement local and regional resource management strategies.
- Implementing a plan for responding to changes would likely require new resources.

Implementation Challenges

- Uncertainty in continuity of State and local funding to maintain participation.
- Participation and cooperation of local, State and federal agencies on science and research efforts.

Performance Measures

- Funding provided to California's universities and local, regional, and State agencies for ongoing global climate change studies and manage staff work related to global climate change research.
- Progress in implementing of the plan responding to the impact of global climate change on the management of the State Water Project.

Recommended Action #10

DWR and other State agencies should explicitly consider public trust values in the planning and allocation of water resources to protect public trust uses whenever feasible.

The State should exercise continuous supervision over its navigable waters, the lands beneath them, and the flows of their tributary streams to protect the public's rights to commerce, navigation, fisheries, recreation, ecological preservation, and related beneficial uses.

Action Plan

- DWR will develop consistent, department-wide guidelines and methodology for how it will evaluate its public trust responsibilities.
- DWR will participate in efforts to coordinate implementation of public trust responsibilities with other State agencies

Intended Outcomes

- DWR guidelines and methodology for how DWR will evaluate its public trust responsibilities.
- Institutional mechanism for coordinating public trust responsibilities with other agencies.

Resource Assumptions

- A portion of the necessary work could be accomplished with existing resources.
- Full implementation would require additional resources and/or redirection of existing resources.

Implementation Challenges

- Difficulty in quantifying public trust responsibilities.
- Developing the institutional relationships with other agencies necessary for coordinating implementation of public trust responsibilities.

Performance Measures

- Progress in completing department-wide guidelines and methodology for how DWR will evaluate its public trust responsibilities.
- Progress in implementing an institutional mechanism for coordinating public trust responsibilities with other agencies.
- Explicit evaluation of public trust resources and values in DWR and other State environmental review documents and reports.

Recommended Action #11

DWR should invite, encourage, and assist tribal government representatives to participate in statewide, regional, and local water planning processes and access State funding for water projects.

DWR should include tribal water concerns and water uses in future Water Plan updates and engage appropriate local, State and federal agencies to resolve tribal water issues that are identified.

Action Plan

- DWR will conduct outreach to tribal associations and California tribes seeking their participation in the California Water Plan Updates, particularly for identifying and evaluating tribal water concerns and water uses. Some of the potential areas of interest identified through tribal outreach conducted in 2003 follow.
- Tribal, State, and Federal governments work cooperatively to ensure safe and piped potable water for all Californians, including its Tribes.
- Tribal, State, and Federal governments jointly assess surface and groundwater quantity and quality needed to support Tribal fishing rights and cultural practices.
- California Water Plan Update 2004 addresses Tribal water rights in California and considers needed changes.
- State engage Tribes at all stages of State's water planning processes and provide funding for meeting participation.
- Tribal, State, and Federal governments cooperatively engage in sourcing funds for projects to improve Tribal water supplies and quality and ecosystem restoration.
- Reinstate question for "Source of Water" and "Sewage Disposal" in the U.S. Census questionnaire.

Intended Outcomes

- Incorporate Tribal water concerns and water uses in the next update of the California Water Plan.
- Identify responsibilities of State agencies to address Tribal water rights and other Tribal water issues.
- Safer and piped potable water for Tribes.
- Assessment of surface and groundwater quantity and quality needed to support Tribal fishing rights and cultural practices.
- Fund sources for projects to improve Tribal water supplies and quality and ecosystem restoration.
- Reinstated question for "Source of Water" and "Sewage Disposal" in the U.S. Census questionnaire.

Resource Assumptions

- Limited outreach could be accomplished with existing resources. Greatly expanded outreach would require additional resources or redirection of existing resources.

Implementation Challenges

- Developing the institutional relationships with California tribes and appropriate federal, State, and local agencies and programs necessary for integrating information into the California Water Plan Update.

Performance Measures

- Number and geographic representation of California tribes participating in statewide, regional, and local water planning processes.
- Level of support among California tribes of the findings and recommendations of the California Water Plan update.
- Successful implementation of tribal-related water policies, programs, and projects.

Recommended Action #12

DWR and other State agencies should encourage and assist representatives from disadvantaged communities and vulnerable populations, which have experienced disproportionate adverse health and environmental impacts, to participate in statewide, regional, and local water planning processes and access State funding for water projects.

Recent State policy establishes social equity and Environmental Justice as a State planning priority to ensure the fair treatment of people of all races, cultures, and income.

Action Plan

- DWR will conduct outreach to disadvantaged communities and vulnerable populations and their advocates seeking their participation in the California Water Plan Update, particularly for evaluating how they might be affected by different water management strategies.
- DWR will monitor or participate in activities of other federal, state, regional, and local governmental programs and processes which may have Environmental Justice interests relevant to the California Water Plan Update.
- DWR will incorporate Environmental Justice issues of precautionary applications, cumulative health impact reductions, public participation, community capacity building and communication, and meaningful participation into current and future California Water Plan Update processes and other DWR programs.

Intended Outcomes

- Reporting the results of outreach to disadvantaged communities and vulnerable populations in the next California Water Plan Update, particularly the evaluation of how they might be affected by different water management strategies.
- Increased awareness of EJ issues by DWR Program Managers and other local and regional planning efforts.

Resource Assumptions

- Limited outreach could be accomplished with existing resources. Greatly expanded outreach would require additional resources or redirection of existing resources.

Implementation Challenges

- Developing the institutional relationships with local, State, and federal agencies serving, and advocates for disadvantaged communities and vulnerable populations to conduct outreach and integrate information into the California Water Plan Update.

Performance Measures

- Number and geographic representation of representatives from disadvantaged communities and vulnerable populations participating in statewide, regional, and local water planning processes.
- Level of support among representatives from disadvantaged communities and vulnerable populations of the findings and recommendations of the California Water Plan update.

Recommended Action #13

The CALFED Bay-Delta Program needs greater federal commitment, agency involvement, spending authorization, and funding to ensure continued and balanced implementation.

The State should continue to provide leadership for the CALFED Bay-Delta Program to ensure continued and balanced progress on greater water supply reliability, water quality, ecosystem restoration, and levee system integrity. The State should cooperate with the federal government to review and revise the implementation plan for the CALFED Bay-Delta Program to reflect the current fiscal climate, and accordingly adjust progress and expectations in all elements of the Bay-Delta Program to achieve balanced implementation.

Action Plan

- Work with the California Bay-Delta Authority to develop a comprehensive list of tasks being conducted under the Bay-Delta program, to prioritize the tasks in cooperation with the California Bay-Delta Authority public advisory committee, to develop a schedule for completing the tasks, and to estimate funding necessary to continue work.
- Work with the California Bay-Delta Authority, the Governor, and the Legislature to develop acceptable mechanisms for funding the work.
- Promote communication, cooperation and collaboration among State and federal agencies involved in the CALFED Bay-Delta Program.

Intended Outcomes

- A completed inventory of tasks being conducted under the Bay-Delta program and a work plan for completing the tasks.
- Long-term finance plan with funding solutions for implementation of the different program elements of the CALFED Bay-Delta Program.

Resource Assumptions

- Existing resources can complete the inventory of tasks being conducted under the Bay-Delta program and a work plan for completing the tasks.
- Additional resources or a redirection of existing resources will be required to complete the feasibility studies associated with the CALFED Bay-Delta Program. Significant additional resources will be required to fully implement the CALFED Bay-Delta Program Record of Decision.

Implementation Challenges

- Resistance to implementing new water user fees or general taxes to fund the work.
- Difficulty in defining beneficiaries that could help fund the work.

Performance Measures

- Annual funding dedicated for CALFED Bay-Delta Program, local technical and financial assistance, data and analytical tools development, feasibility and implementation of resource management strategies, groundwater management plans, urban water management plans, and regional water plans.
- Progress in completing the inventory of tasks being conducted under the Bay-Delta program.
- Progress in implementing the work plan for completing the tasks being conducted under the Bay-Delta program.
- Measured improvements in statewide water management objectives.